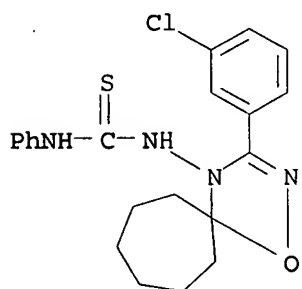
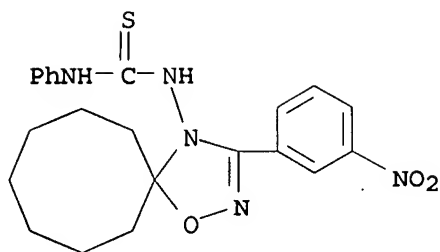


L8 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1994:483205 CAPLUS <<LOGINID::20061220>>  
DOCUMENT NUMBER: 121:83205  
TITLE: Ring transformation of heterocycles: Part 3. A  
conversion of 4-amino-Δ<sup>2</sup>-1,2,4-oxadiazolines  
into 2-arylamino-1,3,4-thiadiazoles and oxa-analogs  
AUTHOR(S): Hussein, Ahmad Q.; El-Abadelah, Mustafa M.; Nazer,  
Musa Z.; Awadallah, Adel M.; Rademacher, Paul;  
Bandmann, Heinz  
CORPORATE SOURCE: Chem. Dep., Univ. Jordan, Amman, Jordan  
SOURCE: Heterocycles (1994), 38(5), 981-90  
CODEN: HTCYAM; ISSN: 0385-5414  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 121:83205  
GI For diagram(s), see printed CA Issue.  
AB 4-Amino-Δ<sup>2</sup>-1,2,4-oxadiazolines (I, R = C<sub>6</sub>H<sub>4</sub>X, X = m-, p-NO<sub>2</sub>, m-,  
p-Cl, n = 4,6,7, R' = H) are transformed into the corresponding  
2-arylamino-1,3,4-oxadiazoles (II) or thiadiazoles (III) via reaction with  
Ph isocyanate (or Ph isothiocyanate), followed by brief treatment of the  
resulting adducts (I, R' = CONHPh and CSNHPh) with trifluoroacetic  
anhydride at ambient temperature Treatment of I with trifluoroacetic anhydride  
gave 2-trifluoromethyl-1,3,4-oxadiazoles.  
IT 156360-52-0P 156360-53-1P 156360-54-2P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation and reaction of, with trifluoroacetic anhydride)  
RN 156360-52-0 CAPLUS  
CN Thiourea, N-[3-(3-chlorophenyl)-1-oxa-2,4-diazaspiro[4.6]undec-2-en-4-yl]-  
N'-phenyl- (9CI) (CA INDEX NAME)

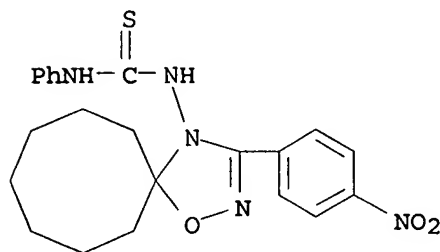


RN 156360-53-1 CAPLUS  
CN Thiourea, N-[3-(3-nitrophenyl)-1-oxa-2,4-diazaspiro[4.7]dodec-2-en-4-yl]-  
N'-phenyl- (9CI) (CA INDEX NAME)



RN 156360-54-2 CAPLUS

CN Thiourea, N-[3-(4-nitrophenyl)-1-oxa-2,4-diazaspiro[4.7]dodec-2-en-4-yl]-N'-phenyl- (9CI) (CA INDEX NAME)



IT 156360-48-4P 156360-49-5P 156360-50-8P

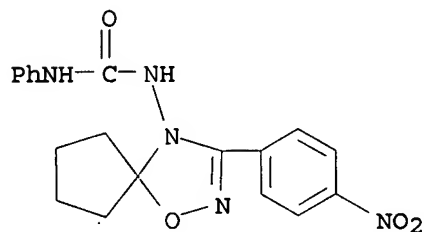
156360-51-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reactions of, with Ph isocyanate and trifluoroacetic anhydride)

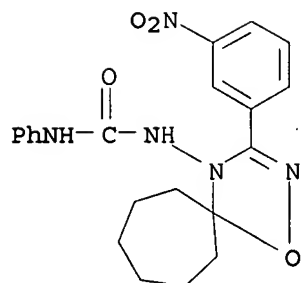
RN 156360-48-4 CAPLUS

CN Urea, N-[3-(4-nitrophenyl)-1-oxa-2,4-diazaspiro[4.4]non-2-en-4-yl]-N'-phenyl- (9CI) (CA INDEX NAME)



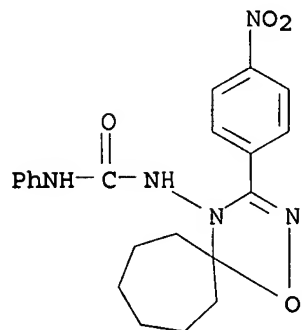
RN 156360-49-5 CAPLUS

CN Urea, N-[3-(3-nitrophenyl)-1-oxa-2,4-diazaspiro[4.6]undec-2-en-4-yl]-N'-phenyl- (9CI) (CA INDEX NAME)



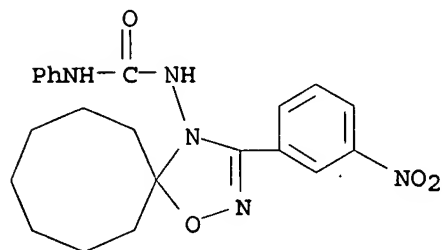
RN 156360-50-8 CAPLUS

CN Urea, N-[3-(4-nitrophenyl)-1-oxa-2,4-diazaspiro[4.6]undec-2-en-4-yl]-N'-phenyl- (9CI) (CA INDEX NAME)



RN 156360-51-9 CAPLUS

CN Urea, N-[3-(3-nitrophenyl)-1-oxa-2,4-diazaspiro[4.6]undec-2-en-4-yl]-N'-phenyl- (9CI) (CA INDEX NAME)

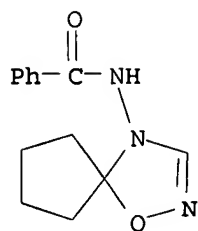


IT 156360-59-7 156360-60-0 156360-61-1

RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with trifluoroacetic anhydride)

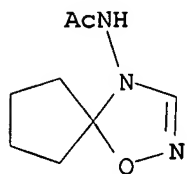
RN 156360-59-7 CAPLUS

CN Benzamide, N-1-oxa-2,4-diazaspiro[4.4]non-2-en-4-yl- (9CI) (CA INDEX NAME)



RN 156360-60-0 CAPLUS

CN Acetamide, N-1-oxa-2,4-diazaspiro[4.4]non-2-en-4-yl- (9CI) (CA INDEX NAME)



RN 156360-61-1 CAPLUS

CN Formamide, N-1-oxa-2,4-diazaspiro[4.4]non-2-en-4-yl- (9CI) (CA INDEX NAME)

